TRAITÉ DE COOPÉRATION EN MATIÈRE DE BREVETS

PCT

RAPPORT PRÉLIMINAIRE INTERNATIONAL SUR LA BREVETABILITÉ

(chapitre I du Traité de coopération en matière de brevets)

(règle 44bis du PCT)

Référence du dossier du déposant ou du mandataire WOB03CNRCYCL	POUR SUITE À DONNER	Voir le point 4 ci-dessous		
Demande internationale no. PCT/FR2004/000691	Date du dépôt international (jour/mois/année) 22 March 2004 (22.03.2004)	Date de priorité (jour/mois/année) 28 March 2003 (28.03.2003)		
Classification internationale des brevets (8 ^e edition, sauf indication d'une #dition ant#rieure) Voir les informations pertinentes dans le formulaire PCT/ISA/237				
Déposant CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE				

1.	Le présent rapport préliminain l'administration chargée de la	e international sur la brevetabilité (chapitre I) est établi par le Bureau international au nom de recherche internationale selon la règle 44 <i>bis</i> .1.a).	
2.	Ce RAPPORT comprend un to	otal de 6 feuilles, y compris la présente feuille de couverture.	
	Dans les feuilles jointes, toute référence à l'opinion écrite de l'administration chargée de la recherche internationale doit être entendue, à la place, comme une référence au rapport préliminaire international sur la brevetabilité (chapitre I).		
3.	Le présent rapport contient des	s indications relatives aux points suivants :	
	Cadre n° 1	Base de l'opinion	
	Cadre n° II	Priorité	
	Cadre n° III	Absence de formulation d'opinion quant à la nouveauté, l'activité inventive et la possibilité d'application industrielle	
	Cadre n° IV	Absence d'unité de l'invention	
	Cadre n° V	Déclaration motivée selon l'article 35.2) quant à la nouveauté, l'activité inventive et la possibilité d'application industrielle; citations et explications à l'appui de cette déclaration	
	Cadre n° VI	Certains documents cités	
	Cadre n° VII	Certaines irrégularités relevées dans la demande internationale	
	Cadre n° VIII	Certaines observations relatives à la demande internationale	
4.	Le Bureau international commu mais pas avant l'expiration du c requête expresse à cet égard en	iniquera le présent rapport aux offices désignés conformément aux règles 44 <i>bis</i> .3.c) et 93 <i>bis</i> .1 délai de 30 mois à compter de la date de priorité (règle 44 <i>bis</i> .2), sauf si le déposant a présenté une vertu de l'article 23.2).	
		Date d'établissement du présent rapport	

21 February 2006 (21.02.2006)

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PATENT COOPERATION TREATY

From th INTERN		NAL SEARCHII	NG AUTHOR	RITY		in the second
Го:						PCT PCT
						RITTEN OPINION OF THE TONAL SEARCHING AUTHORITY
						(PCT Rule 43bis.1)
					Date of mailing (day month year)	
1		ngent's file referen	ice		FOR FURTHER .	
		NRCYCL oplication No.	<u></u>	Transmissional diling data	1	See paragraph 2 below
	-	2004/000	691	International filing date (22.03.2004	(day monin year)	Priority date (day month year) 28.03.2003
		tent Classification	n (IPC) or both	n national classification an	ıd IPC	
Applicar CEN		NATIONA	L DE LA	A RECHERCHE	SCIENTIFIQ	UE .
1.	This o	pinion contains is	ndications relat	ting to the following items	s:	
	\boxtimes	Box No. I	Basis of the	-		
		Box No. II	Priority	оринон		
		Box No. III	•	shment of oninion with re-	gard to novelty, invent	ive step and industrial applicability
	\Box	Box No. IV		y of invention	gara to novery,	ive step and moustrial approximate,
	\boxtimes	Box No. V	Reasoned sta			novelty, inventive step or industrial
		Box No. VI	Certain docu		• -	
		Box No. VII	Certain defe	ects in the international app	plication	
		Box No. VIII		ervations on the internation	•	
2.	FURT	THER ACTION				
	Interna than th this Int	ational Preliminary his one to be the I ternational Search	ry Examining A IPEA and the c hing Authority	Authority ("IPEA") except chosen IPEA has notified will not be so considered.	ot that this does not app I the International Bure	I be considered to be a written opinion of the ply where the applicant chooses an Authority other eau under Rule 66.1bis(b) that written opinions of
	written PCT IS	reply together.	where appropriation of	oriate, with amendments, of 22 months from the pri	before the expiration	A, the applicant is invited to submit to the IPEA a of 3 months from the date of mailing of Form expires later.
3.		rther details, see n				
Name an	d mailii	ng address of the I	ĪSA EP	 -	Authorized officer	·
Facsimile	e No.				Telephone No.	

International application No.
PCT/FR2004/000691

Box	x No. I	Basis of this opinion
1.	With filed	n regard to the language, this opinion has been established on the basis of the international application in the language in which it was l, unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language . which is the language of a translation furnished for the purposes of international search (under
	_	Rule 12.3 and 23.1(b)).
2.	With inver	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, this opinion has been established on the basis of:
	a.	type of material
	1	a sequence listing
	ſ	table(s) related to the sequence listing
	b.	format of material
	ſ	in written format
		in computer readable form
	c.	time of filing/furnishing
	ſ	contained in the international application as filed.
	[filed together with the international application in computer readable form.
	[furnished subsequently to this Authority for the purposes of search.
3.	1	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additi	ional comments:

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Box	No. I	II Priority	
1.	\boxtimes	The following document has not yet been furnished:	
		copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).	
		translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).	
		Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established of the assumption that the relevant date in the claimed priority date.)1 3
2.		This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.	id 1e
3.	Addi	itional observations, if necessary:	

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Box		nt under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; mations supporting such statement	
1.	Statement		
	Novelty (N)	Claims 1-29 Claims	YES NO
	Inventive step (IS)	Claims 1-29	YES NO
	Industrial applicability (IA)	Claims 1-29 Claims	_ YES _ NO
2.	Citations and explanations:		
	D1: NAGATA Y. e Terminal D2: NOBUYOSHI A halodeox 1995. pag D3: WO 97/33919 A JACQUE D4: JUAN J. GARC CHEM. E	nce is made to the following documents: t al.: "pH-Responsive Guest Binding of Polypeptide Containing a Cyclodextrin at the "BULL. CHEM. SOC. JPN, vol. 67, 1994, pages 495-499, NP0001161 089 AOKI et al.: "Gas chromatographic-mass spectrometry study of reactions of ycelluloses with thiols in aqueous solutions" CARBOHYDRATE POLYMERS, vol. 27, ges 13-21. NP004034456 GREAT BRITAIN A (ORTIZ MELLET CARMEN: GARCIA FERNANDEZ JOSE MANUEL (EŞ): DEFAYE E) 18 September 1997 IA-LOPEZ ET AL.: "Synthesis of cluster N-Glycosides based on a beta-cyclodextrin core" EUR. JOURNAL, vol. 5, no. 6, 1999, pages 1775-1784, NP000828759 WEINHEIM E (ATOMIC ENERGY COMMISSION)	
	diagram 1) and the forcyclodextrin derivation Document D2 descripal alcohol position (i.e. thioether type bond variancethanethiol document D3 has for agents, particularly the derivatives contagued derivatives at Lewis N or Sialyl Lewis N or Sialyl Lewis N or Sialyl Lewis The presence of this group can play a role Document D4 descripal fectimes. The proposition of lectimes. The proposition of lectimes are processed to the proposition of lectimes. The proposition of lectimes are processed to the proposition of lectimes are processed to the proposition of lectimes. The proposition of lectimes are processed to the proposition of lectimes are processed to the proposition of lectimes. The proposition of lectimes are processed to the processed to	group allows giving to the cyclodextrine an affinity for certain biological sites since this of external molecular and cellular recognition marking. best derivatives of cyclodextrine with multiple ramifications and presents an affinity vis-à-vis perty of forming inclusion complexes with cyclodextrines and the development of systems for generally known by a person skilled in the art (see page 1775, left column). This is solubilization process in an aqueous environment of anti-tumour agents of the taxol extrines rendered usable by this solubilization and includes a maltosyl group attached to the	

3. The subject matter of the claims is new, and beets the requirements for novelty defined by PCT Article 33(2) since no

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Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

document discloses compounds corresponding to the general formula (1) of claim 6.

4 INDEPENDENT CLAIMS 1, 2, 5, 6, 25 and 27

The present application fails to meet the requirements of PCT Article 33(1), the subject matter of the claims not involving an inventive step as defined by PCT Article 33(3).

Contrary to the description, page 3, lines 4 to 7, there exist today derivatives of cyclodextrine enabling the increase of the solubilization of pharmacologically active substances and providing, an affinity vis-à-vis lectines. Documents D3, D4 and D5 are examples of this existence.

Document D4, which is considered as being the prior art closest to the subject matter of claim 6, describes compounds that are only different from the spacer group. The technical feature, particularly introducing a thioether type bond is only one possibility that a person skilled in the art could chose, according to the case, among multiple obvious possibilities, to resolve the problem without an inventive step being involved. Document D2 describes compounds very close to cyclodextrine and cellulose, belonging to the same technical field and which are chemically very similar. A person skilled in the art could find in document D2, together with document D1, an instruction that would lead him to replace the spacer group to thereby obtain the subject matter covered by the terms of the claims.

5 DEPENDENT CLAIMS 3, 4, 7-24, 26, 28, 29

The claims do not appear to contain any features which, in combination with the features of any one claim of the claims to which they refer, meet the requirements of the PCT in respect of novelty and inventive step PCT Article 33(2) and (3)).